

What Is Claimed Is:

1. A connector for mounting a terminal end of a coaxial cable to a piece of equipment having a threaded port, said connector comprising:
  - a) a hollow post having integral stem and flange portions;
  - b) a unitary, one-piece, molded plastic body having opposite ends, an outer surface, a through bore defining an inner surface, and molded threads in a first portion of said inner surface extending from one of said ends; and
  - c) a hollow compression ring having first and second ends and an inner surface cooperably shaped with said body outer surface to effect radial compression of said body in response to axial movement of said ring over said body outer surface from a first position, wherein said first end of said ring is spaced a first distance from said one end of said body, to a second position, wherein said first end is spaced from said one end by less than said first distance.
2. The connector of claim 1 wherein the axial length of said ring is at least substantially equal to the axial length, between said opposite ends, of said body.
3. The connector of claim 2 wherein a first portion of said outer surface of said body extending from said one end thereof has a diameter larger than the inner diameter of a first axial portion of said inner surface of said ring extending from said first end thereof, whereby movement of said first axial portion of said ring inner surface over said first axial portion of said body outer surface is by interference fit.
4. The connector of claim 1 and further including structure within said through bore for engagement of a tool with said body to apply rotational torque to said body.
5. The connector of claim 4 wherein said structure includes at least two open recesses for receiving portions of said tool.
6. The connector of claim 1 and further including structure for retaining said post in a predetermined positional relationship to said body within said through bore.
7. The connector of claim 6 wherein said structure comprises a second portion of said body extending into said through bore and a pair of shoulders on said post between which said second portion is received.

8. The connector of claim 6 wherein said positional relationship comprises positioning said flange at least partly within said first portion of said body, surrounded by said threads.
9. The connector of claim 1 wherein said first end of said ring and said one end of said body are in a substantially common plane when said ring is in said second position.
10. The connector of claim 9 wherein said second end of said ring and said other end of said body are in a substantially common plane when said ring is in said second position.
11. A body member for use in a connector which mounts a coaxial cable to a piece of equipment by threaded engagement of internal threads on said body member with external, metal threads of known pitch and diameter on a shaft surrounding a port on said equipment, said body member comprising:
- a) a one-piece plastic molding having an outer surface, opposite ends, a central axis and a through, axial bore defining an inner surface;
  - b) internal, plastic threads molded into said inner surface and extending axially thereof for a first distance from one of said opposite ends; and
  - c) said plastic threads having a pitch and diameter such that said plastic threads mate with said metal threads by interference fit, whereby engagement of said plastic and metal threads forms a thread seal.
12. The body member of claim 11 wherein said first distance is less than one-half the axial length of said body member.
13. The body member of claim 11 and further including structure on said inner surface for rotational engagement by a tool to impart rotation to said body member for engagement of said internal threads with said external threads.
14. the body member of claim 13 wherein said structure includes at least two open recesses for engagement by portions of said tool.
15. Connector means for mounting to an end portion of a coaxial cable, said connector means comprising:
- a) first means providing a hollow enclosure for said cable end portion, said enclosure having a central axial and opposite ends;

b) second means coaxially arranged within said enclosure for axial insertion between two adjacent layers of said cable;

c) thread means coaxially arranged with said enclosure for engagement with a threaded port of equipment to which said cable is to be attached; and

d) third means for applying radial compression to said first means in response to relative axial movement of said first and third means between a first position, wherein said third means partially encloses said first means, to a second position, wherein said third means fully encloses both said first and second means.

16. The connector of claim 15 wherein said thread means are positioned within said enclosure.

17. The connector of claim 15 wherein said third means fully encloses said thread means when said first and third means are in said second position.

18. The connector of claim 17 wherein a first axial portion of said first means concentrically surrounds said thread means and a second axial portion of said third means is moved by interference fit over said first axial portion, thereby applying radial compression thereto, during said movement from said first to said second position.

19. The method of connecting a coaxial cable to a port of a piece of electrical equipment, said method comprising:

a) threadedly engaging a first end of a coaxial cable connector having first and second ends, to a threaded shaft surrounding said port;

b) inserting a terminal end of said cable, previously prepared by removing specified axial lengths of individual layers of said cable, into said second end of said connector and advancing said terminal end to a predetermined position with respect to said connector wherein said terminal end is surrounded by a body portion of said connector; and

c) applying a radially compressive force to said body portion and to said terminal end within said body portion.

20. The method of claim 19 and further comprising forming said body portion as a unitary plastic molding which includes said first and second ends.

21. The method of claim 20 wherein said first end includes a first inner surface wherein threads are formed in the molding of said body portion and a first outer surface concentrically surrounding said threads.
22. The method of claim 21 wherein said radially compressive force is applied by moving a hollow ring having second inner and outer surfaces from a first to a second position wherein said ring surrounds said body portion including said first outer surface.
23. The method of claim 22 wherein said first outer surface is formed with a diameter greater than the portion of said second inner surface, whereby movement of said ring to said second position applies a radially compressive force to said threads.
24. The method of claim 23 wherein said ring has an axial length at least as great as the axial length of said body portion, whereby said body portion is substantially fully enclosed by said ring in said second position thereof.
25. The method of claim 24 and further comprising applying visible indicia to said cable prior to insertion thereof into said second end of said connector, said indicia indicating the proper extent of axial insertion of said terminal end into said connector.
26. The method of claim 25 wherein said ring is formed of metal.